GENERALIZED DESCRIPTION OF STRATIGRAPHIC UNITS

LOWER KUSKOKWIM REGION, ALASKA							
Time Unit	Generalised Map Unit	Estimated thickness (feet)	Description of Rocks				
	Qal	01 to 3001?	Largely fluvial, but some colian deposits.				
			Well-sorted to poorly sorted silt, sand, gravel, and boulders.				
Quaternary	Qg .	0' to 200'	Unsorted silt, sand, gravel, and boulders constituting				
90			various types of moraines.				
	3.4						
. 2	Unconformity _						
Pilocene or Pielstocene	Plv	50' to 500'	Fresh, black vesicular and amygdaloidal basalt with minor amount of obsidian and tuff. Occurs locally				
ā ā	Unconformity -		beneath glacial deposits on valley floors.				
ie (?)	Teb	300' to 600'	Andesite and basalt laws, somewhat altered. Gently folded. Lies unconformably on middle Upper Oretaceous				
Miocene (?)			sedimentary rocks and late Cretaceous or early Tertiary intrusive rocks.				
	Unconformity .						
	UK	Sediments	Kuskokwim group. Interbedded graywacke and siltstone. Toward the base the graywacke is more massive, commonly conglomeratic and interbedded with slaty black miltstones.				
Gretaceous		to 25,000'	These rocks are lecally unconformable upon older rocks. In places the interbedded graywacke and siltstones over-				
a. Or			lie 2000 to 5000 feet of shaly siltstone, part of which is probably Upper Cretaceous and the rest Lower Cretaceous.				
Upper		Andegite	Andesitic lava, tuffs, breccia with interbedded - clastic and calcareous sediments. Are same age as				
		3,000°	interbedded graywacke and siltstone listed above.				
7.6	Probable erosional	THE RESERVE OF THE PERSON OF T					
Cretaceous	largely LK;	2000 to 5000 (?)	Black shaly siltstone overlying massive graywacke and conglowerate. In most places ten to 30 feet of impure				
	in part UK and RLK	50001 (?)	fossiliferous limestone at base of conglomerate. Con- glomerate and limestone may be unconformable upon all older rocks or may rest on several hundred feet of black				
Lower			and gray slaty siltstones which are also probably Lower Cretaceous. Abrupt changes in thickness and lithology				
	- Unconformity -	100	typical of formation.				
Jurassic	largely LK;	2000 to	(Rocks known and thought to be of Upper Jurassic age) Massive and thin-bedded graywacke, tuffaceous graywacke,				
-		5000' (?)	and crystal tuff interbedded with massive and thin-bedded siliceous siltstone and fine-grained tuff. Andesitic				
200	in part		lava and flow breccia occurs locally. Middle and Lower Jurassic rocks occur on Hagemeister				
Upper Middle	RLK and R		Island, south of the area covered by the map. They consist of fine to medium grained siliceous sediments inter-				
J. Hilbly			bedded with andesitic lava and breccia. Some of the rocks of similar lithology within the map area may be of comparable age.				
Poss							
	No appar stratigraph						
3 3	largely	to 60001 (7)	Massive siliceous argillite, massive and thin-bedded vari- colored chert, greenstone, well-bedded silty argillite, few thin beds impure limestone.				
Upper Triassic Irnic and Noric)	in part	10001	(Identified only between Upnuk and Slate lakes) Calcar-				
	PT	to 2000' (7)	eous siltatone with thin beds of impure limestone, massive silty graywacke, 80 to 120 feet crystalline				
Uppe (Karnic			limestone.				
	No appar						
	stratigraph P. Pg,	ic break	Tikchik Lakes Ares: 1000 to 2000 feet of vari-colored fine-grained, slaty tuffs and/or siliceous sediments				
	and Pl	to 8000' (7)	(P) overlying 1000 to 3000 feet of massive greenstone (Pg). Greenstone grades downward into about 1000 feet of fossil-				
			bearing limestone on Lake Chauskuktuli (PI). On Chikuminuk Lake the P1 formation consists of interbedded calcareous				
12.78			sandstone, argillaceous limestone, thin beds of relative- ly fine crystalline limestone and a minor amount of volcanic tuff and breccia.				
c			Kwethluk-Kisaralik Rivers Area: 2000 to 4000 feet				
Permian			massive-bedded schistose greenstone with interbedded chert overlain by 1000 to 2000 feet interbedded green-				
-			stone, limestone, quartzite, and chert.				
			Kanektok River Area: 1000 to 2000 feet thin-bedded tuffaceous limestone, 2000 to 1000 feet massive argillite				
			greenstone and chert.				
	No appare	ent					
	stratigraph	ic break					
	A and Mi	Several thousand feet	Vari-colored chert, cherty grit, calcareous and quartsitic sandstone, impure limestone, minor amount of volcanic flows and tuffs.				
Mississippian (?)			Mertie, J. B. Jr., The Mushagak District, Alaska, U. S.				
issipp			Geol. Survey Bull. 903, 1938, pp 37-42 recognizes an unconformity between these rocks and the overlying				
Miss			Permian limestone. The writer found that the Permian limestone graded downward into this group of rocks.				
	Punhah	Complete					
	Probable unco	800	Massive and thin-bedded gray limestone, possibly a				
Devonian		1200'	small amount of green schist.				
16 cm 31 31 31 31 31 31 31 31 31 31 31 31 31	Unconformity _						
2.4	Um	5000**	Pink and gray gneiss apparently grading upward into schist, quartaite, crystalline limestone. Gneiss is				
5	ACE 1475		both massive and well-foliated (bedded). Contains both orthoclase and plagioclase, quarts, biotite, muscovite,				
To the second		A140 F - 10					
mbrian (epidote, and accessories. Shows mortar structure. Quarts-muscovite, quarts-biotite, and garnetiferous hornblende schists are common. Highly recrystallized				

RECONNAISSANCE GEOLOGIC MAP OF THE LOWER KUSKOKWIM REGION, ALASKA

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